Section 1: Product and Company Identification
Product Name: Silver Colloids 20, 40, 60, 80, nm
Synonym: none
Company Name
Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477
   Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
   Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day
CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification
2.1 Classification of substance mixture
This product has no classification under CLP.
Not classified as a hazardous substance.

GHS Pictograms: NA
GHS Categories: NA

2.2 Label elements
Void
Hazard pictograms: NA
Signal Word: NA
Hazard statements: NA
Precautionary statements: NA

2.3 Other hazards

Health Effects:
NFPA Hazard Rating: Health: 1; Fire: 0; Reactivity: 1
HMIS® Hazard Rating: Health: 1; Fire: 0; Reactivity: 1
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment: This product is not classified as a PBT/vPvB substance.
PBT,vPvB: This product is not identified as a PBT/vPvB substance.

Emergency overview
Appearance: Clear-to-yellow liquid (varies with size)
Immediate effects: ND

Potential health effects
Primary Routes of entry: Ingestion, inhalation, skin and eye contact.
Signs and Symptoms of Overexposure: ND
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May be harmful if swallowed.
Inhalation: ND
Chronic Exposure: ND
Chemical Listed As Carcinogen Or Potential Carcinogen: None
See Toxicological Information (Section 11)

**Potential environmental effects**
See Ecological Information (Section 12)

### Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Principle Component(s) (chemical and common name(s)) (Cas. No)</th>
<th>%</th>
<th>OSHA PEL mg/m3</th>
<th>ACGIH TLV mg/m3</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA regulated Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
</tr>
</tbody>
</table>

### Section 4: First Aid Measures

**If accidental overexposure is suspected**

Eye(s) Contact: Bathe the eye with running water for 15 minutes.
Skin Contact: Wash immediately with plenty of soap and water.
Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

**Note to physician**

Treatment: ND
Medical Conditions generally Aggravated by Exposure: ND

### Section 5: Fire Fighting Measures

Flash Point: NA
Flammable Limits: NA
Auto-ignition point: NA
Fire Extinguishing Media: Suitable fire extinguishing media should be used.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: NA
Hazardous combustion products: ND
DOT Class: Not regulated.

### Section 6: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled: Use absorbent material and collect into container for disposal.
Personal precautions: Avoid breathing vapors, mist or gas.
Environmental precautions: Do not discharge into drains or rivers.
Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

### Section 7: Handling and Storage

Precautions to be taken in Handling and Storage: Ensure there is sufficient ventilation of the area. Keep container tightly closed. Must be kept in original packaging.
Storage temperature: Store at 2-8°C. **Do not freeze.**
Storage Pressure: NA
**For laboratory use only.**

### Section 8: Exposure Controls / Personal Protection

**Engineering Controls**
Ventilation required: Not required under normal use.

**Personal Protection Equipment**
- Respiratory protection: Not required under normal use.
- Protective gloves: Wear protective gloves.
- Skin protection: Fully-buttoned laboratory coat.
- Eye protection: Safety goggles.
- Additional clothing and/or equipment: ND

**Exposure Guidelines**
See Composition/Information on Ingredients (Section 3)

### Section 9 Physical and Chemical Properties
- **Appearance and Physical State:** Clear-to-yellow liquid.
- **Odor (threshold):** ND
- **Specific Gravity (H₂O=1):** ~1
- **Vapor Pressure (mm Hg):** ND
- **Vapor Density (air=1):** ND
- **Percent Volatile by volume:** ND
- **Evaporation Rate (butyl acetate=1):** ND
- **Boiling Point:** ND
- **Freezing point / melting point:** ND
- **pH:** ND
- **Solubility in Water:** Soluble
- **Molecular Weight:** NA

### Section 10: Stability and Reactivity
- **Stability:** Stable.
- **Conditions to Avoid:** Freezing
- **Materials to Avoid (Incompatibility):** ND
- **Hazardous Decomposition Products:** ND
- **Hazardous Polymerization:** Will not occur.

### Section 11: Toxicological Information
- **Results of component toxicity test performed:** ND
- **Human experience:** ND
This product does not contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

### Section 12: Ecological Information
- **Ecological Information:** ND
- **Chemical Fate Information:** ND

### Section 13 Disposal Considerations
- **RCRA 40 CFR 261 Classification:** ND
- Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

### Section 14: Transportation Information
- **US DOT Information:** Proper shipping name: Not regulated.
- **IATA:** Proper shipping name: Not regulated.
- **IMO:** Proper shipping name: Not regulated.
- **Marine Pollutant:** No.
- **Canadian TDG:** Not regulated.
**Section 15: Regulatory Information**

**United States Federal Regulations**
SARA: ND
SARA Title III: None
RCRA: None
TSCA: Components listed in Inventory
CERCLA: ND

**State Regulations**
California Proposition 65: No

**International Regulations**
Canada WHMIS: ND
Europe EINECS Numbers: ND

**Section 16: Other Information**

Label Information: ND
European Risk and Safety Phrases: ND
European symbols needed: ND
Canadian WHMIS Symbols: ND

**Abbreviations used in this document**
NE= Not established
NA= Not applicable
NIF= No Information Found
ND= No Data

**Disclaimer**
Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User’s responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.

SDS Form 0013F1V4